

# Fleet C4I and Readiness Department

Rapidly delivering and sustaining effective information warfare capabilities to the Fleet

## Departments



## Fleet C4I and Readiness Department

FY20: 1,567 FTEs

150 Programs / Projects

- **Engineer** (design, develop and test) new C4ISR capabilities that give our Fleet an advantage over adversaries.
- **Integrate** C4ISR systems into the U.S. Navy's newest and most advanced ships and submarines.
- **Install** C2, intel, communications, networks and applications for the Fleet.
- **Support** Fleet C4ISR systems to maintain operational availability and complete lifecycle engineering.

## Customer Areas

- |           |               |                   |
|-----------|---------------|-------------------|
| ▪ PMW 120 | ▪ PMW 740     | ▪ NAVSEA          |
| ▪ PMW 130 | ▪ PMW 750/760 | ▪ NAVAIR          |
| ▪ PMW 150 | ▪ PMW 770     | ▪ USCG            |
| ▪ PMW 160 | ▪ PMW 790     | ▪ Fleet Cyber     |
| ▪ PMW 170 | ▪ FRD         | ▪ Numbered Fleets |

## Leadership

Vacant– SSTM Department Head

Greg Lancaster and Travis Tillman Department Head (Acting)

- Greg Lancaster – Deputy (100 Groups)
  - Division Heads:
    - John Thompson – Battlespace Awareness Div. (PMW 120)
    - Jeff Sweeney – IA & Navy Cybersecurity Div. (PMW 130)
    - Bob Rozar – Navy Afloat Networks and Command & Control Applications Div. (PMW 150/160)
    - Robert James– Navy Afloat Transport & Navigation Div. (PMW 170)
- Travis Tillman – Deputy (700 Groups)
  - Division Heads:
    - Martina Jackson – FMS/Air Integration/USCG Div. (PMW 740)
    - Mark Held – Surface Ship Integration Div. (PMW 750/760)
    - David Bednarczyk – Submarine Integration Div. (PMW 770)
    - Mark Luther – Shore C4I Integration Div. (PMW 790)
    - Len Little – Fleet Installations and Response Div.

## Warfighting Thrust Areas

Powering forward to give our Fleet an advantage over adversaries

- **Thrust Area 1: Cybersecurity**
  - **Goal:** Become a cybersecurity center of excellence by ingraining cybersecurity practices in all of our engineering efforts.
  - **Initiatives:** Improve understanding of current guidance through training, document and share current cyber tasking across the Department and improve vulnerability and patch mgmt. for lab systems and program baselines.
  - **Technology Focus Area Alignment:** Cybersecurity; Assured Comms
- **Thrust Area 2: Innovative Culture**
  - **Goal:** Increase the number of IPTs creating their own future curve by pursuing improvement opportunities – new warfighter technical solutions, workforce training and lab improvements.
  - **Initiatives:** Network and Data Center Intelligent Assistant; Examination of RF Propagation Commonality Strategies using Radiating Coaxial Cables; Orchestration Architecture for Military RF Communications Systems; Remote Testing at the NIEF; Tactical, Deployable MUOS; Resilient Communications Workshop; MBSE to MBT/RPA
  - **Technology Focus Area Alignment:** Assured Communications, Artificial Intelligence, Model Based Systems Engineering
- **Thrust Area 3: High Velocity Learning**
  - **Goal:** Create technical transparency across our IPTs and improve awareness of how system capabilities are used by the warfighter to support missions.
  - **Initiatives:** Quarterly IPT Tri-charts, monthly Thrust Area meetings, Mission Competency development leadership and support.



## Achievements

- The COVID-19 pandemic prompted NCTS Far East to issue an urgent requirement to increase the remote access capabilities. The CND Engineering Team identified the traffic bottlenecks in the ONE-NET architecture and rapidly engineered a solution to significantly increase the network throughput capacity. The team also engineered a support solution to upgrade Remote Access Service (RAS) availability and capacity across the Enterprise for up to 10k concurrent users per region.
- The Submarine Integration Division led a cross organizational team in delivering C2 capability, Wide Area Networking, Water Space Management, and a Secure Voice Communications capability to complete the Chief of Naval Operations (CNO) validated Naval Forces Strategic Command/ United States Strategic Command Joint Force Maritime Component Command (NAVSTRAT)/JFMCC-STRAT requirement to shift operational control of Fleet Ballistic Missile Submarines to Commander Submarine Group Ten (CSG10). This significant effort was completed in less than 5 months.
- The U.S. Naval Observatory (USNO) Precise Time and Astrometry (PTA) Networks IPT was tasked with engineering, integrating and delivering a modernized PTA Network across USNO's three locations: Washington DC (Master Clock site), Colorado Springs, CO (Alternate MC site), and Flagstaff, AZ (Naval Observatory Station). The modernized networks resolved more than 9,000 critical cybersecurity vulnerabilities for this mission critical national asset. The team was recognized with an honorable mention for the 2020 DOD CIO Award.

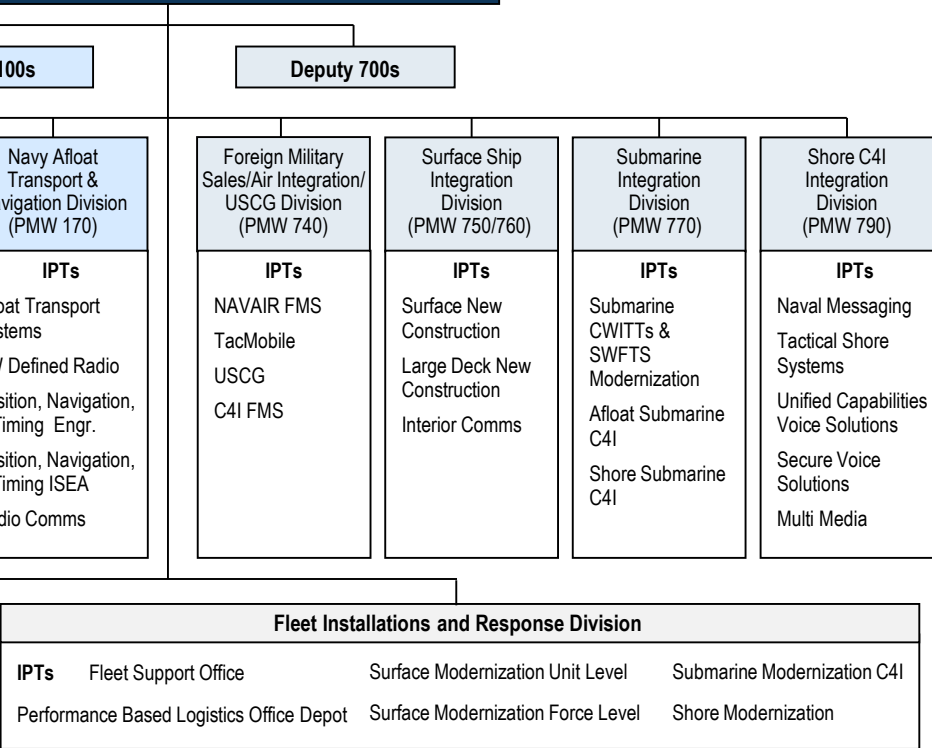
Delivering mission-critical information warfare capabilities to the Warfighter

Naval Information Warfare Center (NIWC) Atlantic is a Navy engineering and Information Technology (IT) Command and part of the Naval Research and Development Establishment.

Our work is shaped by requirements that demand research and engineering with the goal of delivering the operational advantage gained from fully integrating Naval information functions, capabilities and resources to optimize decision making and maximize warfighting effects.

We deliver the products and solutions that help our customers accomplish their mission today and into the future and most importantly, serve our nation by delivering information warfare solutions that protect national security.

**Fleet C4I and Readiness Department**



## Fleet C4I and Readiness Divisions

- **Battlepace Awareness Division:** Delivers intelligence and IO products and services to Warfighters, with primary customer PMW 120 (ISR/IO). Provides the ISR/IO Capability-Based In-Service Engineering Activity (CB-ISEA) services.
- **Information Assurance and Navy Cybersecurity Division:** Delivers cybersecurity protection of DOD IT and telecom systems with cryptographic, network and host-based security products that ensure strong authentication, data integrity, confidentiality, non-repudiation and availability of network information.
- **Navy Afloat Networks and Command & Control Applications Division:** Rapidly deliver integrated wide area, local networking and foundation computing systems products and services to Warfighters. Delivers operational and tactical command and control capabilities by integrating real-time and near real-time representations of tactical situations, providing targeting support and chemical-biological warnings. Major systems include CANES, ADNS, ISNS, CENTRIXS, CES, Afloat Readiness Reporting System, Global Theater Security Cooperation Management Information System, Global C2 System – Maritime, Global C2 System – Joint, theatre Battlefield Management Command System, Joint Automated Deep Operations Coordination System, Air Defense Systems Integrator, Link-11, Link Monitoring Management Tool and Multi-Data Link Management System.
- **Navy Afloat Transport and Navigation Division:** Provides engineering integration and lifecycle support to Navy Afloat Transport Systems. Integrate, deliver and support interoperable communications, enabling seamless Fleet operations. Provides improvements to GPS receivers and antennas and non-GPS sensors and systems. Integrates, tests and evaluates, sustains and supports software-defined radio communications solutions for the Warfighter.
- **Foreign Military Sales / Air Integration / Coast Guard Division:** Delivers and integrates tailored, C4I-releasable systems to foreign partners through Foreign Military Sales and Foreign Military Financing to enhance interoperability between the U.S. and international partners. Provides engr. integration and lifecycle support for Navy TacMobile along with C4I systems integration, installation and testing for new construction USCG ships.
- **Surface Ship Integration Division:** Delivers integrated and interoperable C4I capabilities and support to new construction Navy aircraft carriers, amphibious ships, command ships and aircraft. Designs, integrates and tests interoperable C4I end-to-end capabilities to Navy and Military Sealift Command ships during new construction and modernization. Additionally, provides Cyber Security support for the Cooperative Engagement Capability program and full lifecycle support for surface ship wired and wireless Interior Communication Systems.
- **Submarine Integration Division:** Delivers vital naval capabilities by connecting the entire undersea architecture of manned and unmanned systems and undersea vehicles to maximize joint warfighting capability.
- **Shore C4I Integration Division:** Delivers integrated and interoperable C4I capabilities and support to the Navy's shore and expeditionary forces through modernization, acquisition and system integration.
- **Fleet Installations and Response Division:** Provides direct Fleet support after new platform delivery through the Fleet Support Office, Fleet modernization through the Installation Execution Office and Fleet sustainment of system performance through the In-Service Engineering. Agent. Provide support to NAVSUP's Performance Based Logistics through its PBL Office by refurbishing, repairing and re-engineering selected components, equipment and sub-systems for critical items no longer serviced by Original Equipment Manufacturer providers.

